

Pleiades devel Queue

Category: PBS on Pleiades

NAS provides a special *devel* queue that provides faster turnaround when doing development work.

Currently, 512 Westmere nodes are reserved for the Pleiades *devel* queue, 24x7. The maximum wall-time allowed is 2:00:00 and the maximum NCPUS is 4800. Each user is allowed to have only one job running in the *devel* queue at any one time.

To improve PBS job scheduling response time, the *devel* queue and its resources (for example, nodes) have been moved to a second PBS server (pbspl3). With this move, users must specify the server name for jobs managed by pbspl3 with qsub, qstat, and qdel if the command is launched from a Pleiades front-end node (pfe[1-12] or bridge[1-4]). For example:

```
pfe1% qsub -q devel@pbspl3 job_script
1234.pbspl3.nas.nasa.gov

pfe1% qstat devel@pbspl3

pfe1% qstat -a @pbspl3

pfe1% qstat -u zsmith @pbspl3

pfe1% qstat 1234.pbspl3

pfe1% qdel 1234.pbspl3
```

Alternatively, if you set the environment variable **PBS_DEFAULT** to pbspl3, you can skip pbspl3 in your qsub, qstat, qdel commands. For example (in csh):

```
pfe1% setenv PBS_DEFAULT pbspl3

pfe1% qsub -q devel job_script
1234.pbspl3.nas.nasa.gov

pfe1% qstat devel

pfe1% qstat -a

pfe1% qstat -u zsmith

pfe1% qstat 1234

pfe1% qdel 1234
```

Use the csh command *unsetenv PBS_DEFAULT* to return to using the default PBS server, pbspl1.

Note that the changes described here do not apply to jobs submitted to the other queues (normal, long, debug, and all special queues) served by the default server, pbspl1.

To see all jobs you have submitted to pbspl1 or pbspl3 (using username zsmith in the example below), type the following:

```
pfel% qstat @pbspl1 @pbspl3 -W combine -u zsmith
```

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<http://www.nas.nasa.gov/hecc/support/kb/entry/290/?ajax=1>